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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/928,146	08/10/2001	Douglas J. Daniels	BSC-008DV 6909 EXAMINER	
21323 7	590 04/06/2005			
TESTA, HURWITZ & THIBEAULT, LLP			MANTIS MERCADER, ELENI M	
HIGH STREET TOWER 125 HIGH STREET			ART UNIT	PAPER NUMBER
BOSTON, MA 02110			3737	•
			DATE MAILED: 04/06/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	09/928,146	DANIELS ET AL.			
Office Action Summary	Examiner	Art Unit			
	Eleni Mantis Mercader	3737			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>05 Ja</u>	anuary 2005.				
2a) ☐ This action is FINAL. 2b) ☐ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under a	=x рапе Quayle, 1935 С.D. 11, 4	53 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 36-55 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 36-55 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct to by the Example 2.	epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	is have been received. Is have been received in Applicat Inity documents have been receive In (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)					
Notice of References Cited (PTO-892)	4) 🔲 Interview Summary				
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/Mail D				

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 36-55 have been considered but are moot in view of the new ground(s) of rejection. The limitations regarding the rotational or axial movement of the ultrasonic catheter constitutes new grounds for rejection.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 36-55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hiki et al. '630 in view of Tanaka'991.

Hiki et al. '630 expressly teach the use or an endoscope having multi channels including a channel for insertion of the cutting instrument of choice such as forceps (see element 12 of Figure 2, and see col. 4, lines 38-54). Hiki et al. '630 further teach utilizing the ultrasonic transducer which is insertable into the channel for observation of the cutting procedure of choice in a separate channel of an endoscope as indicated by Figure 2. Hiki et al. 630 also teach the use of an optical imager in addition to the ultrasonic observation means in order to provide a more efficient and thorough image of the region as is well within the knowledge of skilled artisans.

Hiki et al. '630 do not expressly teach monitoring the depth of the tissue structure.

However, it would have been obvious to one skilled in the art at the time that the invention was

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made that the depth is monitored in surgical procedures including biopsies in order to excise the area of interest at the appropriate area by using the images as a guidance in order to provide accurate diagnosis and treatment.

Hiki et al. '630 do not teach the use of an ultrasonic catheter with axial or rotational movement.

In the same field of endeavor, Tanaka'991 teach an ultrasonic catheter with axial or rotational movement within an endoscope (see col. 4, lines 25-40 and col. 7, lines 15-27; referring to the rotatable ultrasonic transducer).

It would have been obvious to one skilled in the art at the time that the invention was made to substitute the stationary ultrasound with a rotatable ultrasound transducer to allow for axial scanning of the area of interest.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this 3. Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this

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final action.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Eleni Mantis Mercader whose telephone number is 703 308-

0899. The examiner can normally be reached on Mon. - Fri., 8:00 a.m.-6:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Brian Casler can be reached on (703) 308-3552. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eleni Mantis Mercader Primary Examiner

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EMM